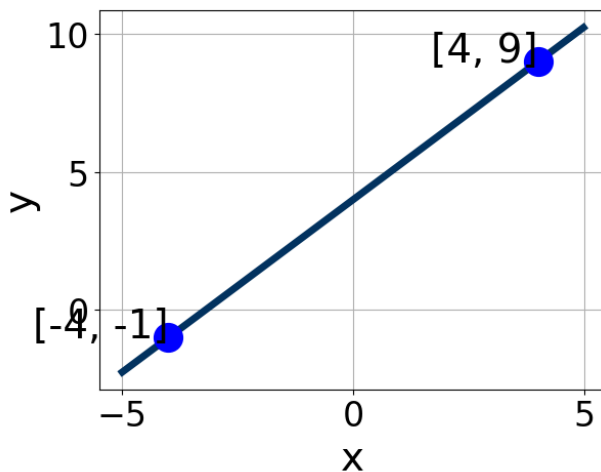


1. Solve the equation below. Then, choose the interval that contains the solution.

$$-4(-10x - 16) = -18(-12x - 17)$$

- A. $x \in [-1.52, -1.43]$
 - B. $x \in [-2.22, -2.09]$
 - C. $x \in [2.08, 2.11]$
 - D. $x \in [-1.44, -1.35]$
 - E. There are no real solutions.
-

2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [-1.25, 0.75]$, $B \in [-0.2, 2.4]$, and $C \in [3, 8]$
 - B. $A \in [-8, -4]$, $B \in [2.7, 5.5]$, and $C \in [11, 22]$
 - C. $A \in [1, 6]$, $B \in [2.7, 5.5]$, and $C \in [11, 22]$
 - D. $A \in [-1.25, 0.75]$, $B \in [-2.5, -0.3]$, and $C \in [-12, 0]$
 - E. $A \in [1, 6]$, $B \in [-4.5, -1.8]$, and $C \in [-18, -14]$
-

3. Solve the equation below. Then, choose the interval that contains the

solution.

$$-7(-15x - 6) = -10(14x - 12)$$

- A. $x \in [4.03, 4.99]$
- B. $x \in [0.33, 1.74]$
- C. $x \in [0.15, 0.49]$
- D. $x \in [-1.36, 0.03]$
- E. There are no real solutions.

-
4. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x + 9}{3} - \frac{3x + 5}{4} = \frac{-3x - 7}{7}$$

- A. $x \in [-3.5, -1.6]$
- B. $x \in [-8.5, -6.2]$
- C. $x \in [-4.3, -2.9]$
- D. $x \in [-0.8, 0.5]$
- E. There are no real solutions.

-
5. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$$(8, -11) \text{ and } (-8, 2)$$

- A. $m \in [-3.4, 0.6]$ $b \in [9.3, 13]$
- B. $m \in [-3.4, 0.6]$ $b \in [-20.9, -17.2]$
- C. $m \in [-0.2, 1.5]$ $b \in [8.1, 9.3]$
- D. $m \in [-3.4, 0.6]$ $b \in [-5.4, -3.6]$
- E. $m \in [-3.4, 0.6]$ $b \in [3.1, 6.9]$

6. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Perpendicular to $7x + 3y = 6$ and passing through the point $(-7, -10)$.

- A. $m \in [-1.46, 0.06]$ $b \in [-14, -9]$
- B. $m \in [2.21, 2.76]$ $b \in [-9, -6]$
- C. $m \in [-0.33, 0.86]$ $b \in [3, 12]$
- D. $m \in [-0.33, 0.86]$ $b \in [-4, -1]$
- E. $m \in [-0.33, 0.86]$ $b \in [-9, -6]$

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7. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x + 5}{7} - \frac{3x - 5}{2} = \frac{-6x + 4}{3}$$

- A. $x \in [-0.83, 0.28]$
- B. $x \in [-4.45, -3.37]$
- C. $x \in [-1.47, -0.74]$
- D. $x \in [1.6, 2.53]$
- E. There are no real solutions.

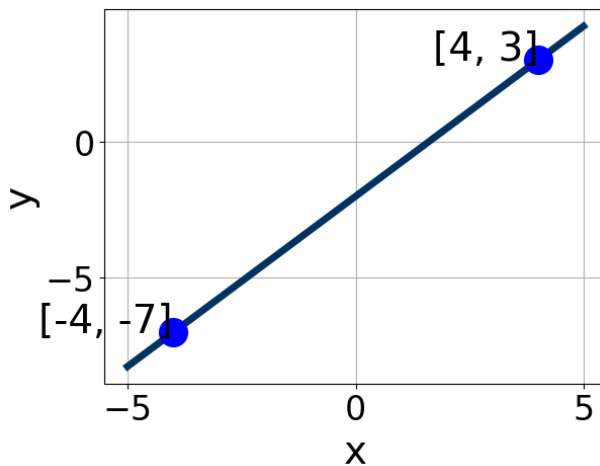
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8. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx + b$ and choose the intervals that contain m and b .

$(3, -8)$ and $(-11, -9)$

- A. $m \in [-0.02, 0.13]$ $b \in [1, 4.9]$
- B. $m \in [-0.33, -0.03]$ $b \in [-10, -8.8]$
- C. $m \in [-0.02, 0.13]$ $b \in [-12.8, -9.8]$
- D. $m \in [-0.02, 0.13]$ $b \in [6.8, 11.1]$

E. $m \in [-0.02, 0.13]$ $b \in [-8.5, -7.6]$

9. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain A , B , and C .



- A. $A \in [4.7, 7.3]$, $B \in [-6.8, -1.8]$, and $C \in [6, 11]$
B. $A \in [-6, -2.5]$, $B \in [1.9, 4.5]$, and $C \in [-12, -6]$
C. $A \in [-1.4, -0.9]$, $B \in [-0.7, 3]$, and $C \in [-4, 1]$
D. $A \in [4.7, 7.3]$, $B \in [1.9, 4.5]$, and $C \in [-12, -6]$
E. $A \in [-1.4, -0.9]$, $B \in [-3.4, -0.2]$, and $C \in [2, 5]$
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10. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b .

Parallel to $8x - 3y = 8$ and passing through the point $(8, -5)$.

- A. $m \in [-1.4, 2.2]$ $b \in [-28.33, -20.33]$
B. $m \in [1.8, 3.7]$ $b \in [-14, -9]$
C. $m \in [1.8, 3.7]$ $b \in [24.33, 27.33]$
D. $m \in [-3, -0.6]$ $b \in [14.33, 21.33]$
E. $m \in [1.8, 3.7]$ $b \in [-28.33, -20.33]$
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